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MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 1, 2015/2016

TMX 7011 – INFORMATION SYSTEMS ANALYSIS AND DESIGN

(All sections / Groups)

23 SEPTEMBER 2015 8.00 p.m. – 10.00 p.m. (2 HOURS)

INSTRUCTIONS TO STUDENTS

- 1. This Question paper consists of 9 pages (including this page).
- 2. Choose FOUR out of FIVE questions.
- 3. Please WRITE ALL YOUR ANSWERS IN THE QUESTION PAPER ITSELF in the space allocated.

Question 1

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Question 2		
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(b) Assume you have a project with TEN activities labelled A-J as shown below. Construct a network diagram based on the notation given below. For each activity, calculate its Early Finish (EF) and Late Finish (LF). Show/highlight the critical path on your network diagram. [8 marks]

Activity	Estimated Time (days)	Preceding task
A	4	-
В	5	A
C	6	A
D	7	A
Е	6	A, D
F	5	C, E
G	4	D, E
H	3	E
I	4	F, G
J	5	H, I

Activity	Estimated Time
Early	Late
Finish	Finish

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Question 3

(a) Draw an Data Flow Diagram (DFD) based on the following scenario:

Exabot.com is a company that sells robotic vacuum cleaner. When a customer places orders on the company's web site, the system checks to see if the items are in stock, issues a status message to the customer, and generates a shipping order to the warehouse, which fills the order. When the order is shipped, the customer is billed. The system also produces reports to the manager.

i) Draw a context DFD diagram for the order system.	[4 marks]

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Question 4

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(c) Based on the given unnormalized STUDENT record below, normalize it into 3NF relations.

[4 marks]

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(b)	Briefly describe the FOUR types of information system installation. [4 marks]
(c)	What are the deliverables at the end of the maintenance phase of SDLC? [2 marks]
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End of Paper